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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/759,220	01/16/2001	Keiichi Hayashi	Q62674	9946

7590 10/19/2004

SUGHRUE, MION, ZINN  
MACPEAK & SEAS  
2100 Pennsylvania Avenue, N.W.  
Washington, DC 20037

EXAMINER
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PEREZ, JULIO R

ART UNIT	PAPER NUMBER
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2681

DATE MAILED: 10/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/759,220

Applicant(s)

HAYASHI, KEIICHI

Examiner

Julio R Perez

Art Unit

2681

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 19 July 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 12/31/01.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) The invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1- 3, 8–10 are rejected under 35 U.S.C. 102(b) as being anticipated by Lin et al. (6366791).

Regarding claim 1, Lin et al. disclose a mobile communication terminal equipped with an Internet browser function, comprising: means for fetching melody data from a web-based server apparatus by using said browser function (col. 3, lines 9-29, the mobile stations comprise the capability to access the web page of the network in order to download musical scores, that is melody data); and tone setting means for setting ringing tones based on tone information contained in said melody data (col. 4, lines 39-57; col. 5, lines 1-2; col. 5, lines 16-27, the ringing tones can be implemented once received and stored within the SIM, where the ringing tones are programmed in accordance with the ringing tone patterns).

Regarding claim 2, Lin et al. disclose the mobile communication terminal, wherein if said melody data contains no tone information, said tone setting means sets a ringing tone based on preset tone information (col. 3, lines 31-67; col. 4, lines 1-11,

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the download is executed based on the contents of the music or tones desired by the subscriber and approved beforehand by the subscriber; if no tone is approved, hence, no tone would be downloaded, and indeed the same tone some tones already stored will stay active).

Regarding claim 3, Lin et al. disclose the mobile communication terminal, wherein if said melody data contains tone information, said tone setting means judges the validity of said tone information (col. 3, lines 31-67; col. 4, lines 1-11; Fig. 2, the system may determine the type of tones to be downloaded during the decision to acquire the tones from the web server).

Regarding claim 8, Lin et al. disclose a ringing method for a mobile communication terminal equipped with an Internet browser function, comprising: having access to a web-based server equipment by means of said browser function (col. 3, lines 9-29; Fig. 2, refs. 35, 40, 45, 55, the mobile stations comprise the capability to access the web page of the network in order to download musical scores, that is melody data); notifying said server equipment of desired melody data in conformity with said access (col. 3, lines 21-29; Fig. 2, the terminal may be used to request musical tones from the server via the Internet); receiving said desired melody data from said server equipment (col. 3, lines 31-46, the mobile obtains the musical tones from the server for later playing); storing said received desired melody data (col. 2, lines 22-57; col. 4, lines 12-38; Fig. 4, the terminal possesses the capability to store the melody tones within); judging whether said stored melody data contains tone information (col. 3, lines 31-67; col. 4, lines 1-11; Fig. 2, the system may determine the type of tones to be downloaded

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during the decision to acquire the tones from the web server); fetching said tone information if it is judged that said melody data contains the tone information (col. 3, lines 31-67; col. 4, lines 1-11; Fig. 2, the system may determine the type of tones to be downloaded during the decision to acquire the tones from the web server); setting a tone for playing a melody in accordance with said melody data, based on said fetched tone information (col. 4, lines 39-57; col. 5, lines 1-2; col. 5, lines 16-27, the ringing tones can be implemented once received and stored within the SIM, where the ringing tones are programmed in accordance with the ringing tone patterns); and playing said melody in said set tone (it is inherent as evidenced by the fact that one of ordinary skill in the art would have recognized that the tone is to be played as soon as a ringing melody is downloaded, col. 3, lines 9-46).

Regarding claim 9, Lin et al. disclose the ringing method for a mobile communication terminal, wherein if said melody data contains no tone information, a ringing tone is set based on preset tone information (col. 3, lines 31-67; col. 4, lines 1-11, the download is executed based on the contents of the music or tones desired by the subscriber and approved beforehand by the subscriber; if no tone is approved, hence, no tone would be downloaded, and indeed the same tone some tones already stored will stay active).

Regarding claim 10, Lin et al. disclose the ringing method for a mobile communication terminal, wherein if said melody data contains tone information, the validity of said tone information is judged (col. 3, lines 31-67; col. 4, lines 1-11; Fig. 2,

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the system may determine the type of tones to be downloaded during the decision to acquire the tones from the web server).

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 4-7, 11-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. (6366791) in view of Yoshino et al. (6308086).

Regarding claims 4, 11, Lin et al. do not explicitly disclose the mobile communication terminal, wherein said tone setting means sets ringing tones by performing a modulation processing based on said tone information contained in said melody data.

However, the preceding limitation is well known in the art of telecommunications.

Yoshino et al. teach a mobile communications terminal with extraction of audio signal frequencies means, which, in turn need to be converted to readable form to a transducer (col. 4, lines 32-40).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to further implement the communication terminal of Lin et al. so as to include modulation processing as per the teachings of Yoshino et al. so that the set ringing tones in the musical scores can be executed as ringing tone patterns on the MS.

Regarding claims 5, 12, Yoshino et al. teach, wherein said tone information contained in said melody data constitutes tone parameters used for said modulation processing (col. 4, lines 34-36, the extracting of frequency components from the audio signal, corresponds to ringing or tone parameters).

Regarding claims 6, 7, 13, 14, Lin et al. do not explicitly disclose the mobile communication terminal, further comprising: ringing-speed setting means for setting a tempo at which a melody is played in accordance with said melody data.

However, the preceding limitation is well known in the art of telecommunications.

Yoshino et al. teach a mobile communications terminal with periodicity controlling means to control the rhythm of a melody to be reproduced (col. 2, lines 54-55; col. 6, 16-27).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to further implement the communication terminal of Lin et al. so as to include rhythm computational means as per the teachings of Yoshino et al. so as to have means of a timing signal for setting a tempo; that is, the relative speed at which music is played in accordance with the melody data being received.

### ***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the art with respect to mobile communication terminal or mobile stations with ringing methods.

US Pat. NO. 6018654 to Valentine et al.

Downloading tones to mobiles

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US Pat. N0.6418330 to Lee

Various ring tones in radio  
terminals

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio R Perez whose telephone number is (703) 305-8637. The examiner can normally be reached on 7:00 - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on 703-308-4825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
JP  
10/6/04

  
DAVID HUDSPETH  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600